

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (CURRENTLY AMENDED) A paper feeding device of an inkjet printer comprising:
a ~~bi-directional~~ motor generating a drive force;
a pickup drive shaft rotated by the motor;
a pivoting link housing having first and second outer surfaces facing in opposite directions, the link housing being pivotably disposed on the pickup drive shaft;
a pickup roller connected to the link housing; and
a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft in a first direction of the motor, ~~wherein the link housing is prevented from pivoting in a second direction of the motor~~ the clutch comprising first and second portions respectively in contact with the first and second outer surfaces of the link housing so that the link housing is between the first and second portions.

2. (PREVIOUSLY PRESENTED) A paper feeding device of an inkjet printer comprising:
a motor generating a drive force;
a pickup drive shaft rotated by the motor;
a pivoting link housing pivotably disposed on the pickup drive shaft;
a pickup roller connected to the link housing; and
a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft, wherein the clutch comprises:
a fixing member on the pickup drive shaft and in contact with a first side of an outer surface of the link housing; and
a press on the pickup drive shaft, pressing the link housing towards the fixing member.

3. (PREVIOUSLY PRESENTED) The paper feeding device of an inkjet printer according to claim 2, wherein the press comprises:
a pressing plate around the pickup drive shaft; and
a pressing spring between the pressing plate and a second side opposite to the first side of the outer surface of the link housing.

4. (PREVIOUSLY PRESENTED) The paper feeding device of an inkjet printer according to claim 2, wherein the press comprises:
a pressing plate fixed around the pickup drive shaft; and
a rubber plate between the pressing plate and a second side opposite to the first side of the outer surface of the link housing.

5. (PREVIOUSLY PRESENTED) The paper feeding device of an inkjet printer according to claim 2, further comprising an abrasion prevention member on a second side opposite to the first side of the outer surface of the link housing, which contacts the press.

6. (CURRENTLY AMENDED) The paper feeding device of an inkjet printer according to claim 1, wherein the clutch further comprises:
an inner race on an outer surface of the pickup drive shaft; and
an outer race in the link housing in contact with an outer surface of the inner race with a predetermined frictional force.

7. (PREVIOUSLY PRESENTED) A paper feeding device of an inkjet printer comprising:
a motor generating a drive force;
a pickup drive shaft rotated by the motor;
a pivoting link housing pivotably disposed on the pickup drive shaft;
a pickup roller connected to the link housing; and
a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft, wherein the link housing comprises:
a pickup drive gear to drive the pickup roller;
a first link housing on the pickup drive shaft to cover the pickup drive gear on the pickup drive shaft; and

a second link housing in the first link housing to pivot by a predetermined angle and having a pickup roller gear geared with the pickup drive gear rotating the pickup roller.

8. (CURRENTLY AMENDED) A paper feeding device, comprising:

a bi-directionally rotatable pickup drive shaft;

a pivoting link housing, driven in first and second directions by the pickup drive shaft[[,]]; and

a pickup roller connected to the link housing and coupled to the pickup drive shaft; and a clutch which links the link housing and the pickup drive shaft,

wherein

when the pickup drive shaft rotates in a first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and portions of the rotating pickup drive shaft on opposite sides of the link housing due to the clutch, and the pickup drive shaft forces the pickup roller to engage, and

when the pickup drive shaft rotates in the second direction, frictional contact between the link housing and the pickup drive shaft causes the link housing to pivot a second predetermined angle about the pickup drive shaft such that the pickup roller is removed from contact with the paper.

9. (CANCELLED)

10. (CURRENTLY AMENDED) The paper feeding device as set forth in claim 98, wherein the clutch further comprises:

an inner race on an outer surface of the pickup drive shaft, and

an outer race in the link housing in frictional contact with an outer surface of the inner race.

11. (CURRENTLY AMENDED) ~~The paper feeding device as set forth in claim 9,~~ A paper feeding device, comprising:

a rotatable pickup drive shaft;

a pivoting link housing, driven in first and second directions by the pickup drive shaft; and

a pickup roller connected to the link housing and coupled to the pickup drive shaft;

wherein

when pickup drive shaft rotates in a first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and the rotating pickup drive shaft, and the pickup drive shaft forces the pickup roller to engage, and

when the pickup drive shaft rotates in the second direction, frictional contact between the link housing and the pickup drive shaft causes the link housing to pivot a second predetermined angle about the pickup drive shaft such that the pickup roller is removed from contact with the paper, wherein the clutch comprises:

a fixing member on the pickup drive shaft in contact with a first outer surface of the link housing; and

a press on the pickup drive shaft pressing the link housing towards the fixing member.

12. (PREVIOUSLY PRESENTED) The paper feeding device as set forth in claim 11, wherein the press comprises:

a fixed plate around the pickup drive shaft, and

a spring between the fixed plate and a second outer surface of the link housing opposite to the first outer surface.

13. (PREVIOUSLY PRESENTED) The paper feeding device as set forth in claim 11, wherein the press comprises:

a fixed plate around the pickup drive shaft, and

a rubber plate between the fixed plate and a second outer surface of the link housing opposite to the first outer surface.

14. (PREVIOUSLY PRESENTED) The paper feeding device as set forth in claim 11, further comprising an abrasion prevention member on a second outer surface of the link housing, opposite to the first outer surface, and in contact with the press.

15. (CURRENTLY AMENDED) A paper feeding device of an inkjet printer, comprising:
a motor generating a drive force;
a bi-directionally rotatable pickup drive shaft coupled to the motor;
a pivoting link housing, driven in a first direction by the pickup drive shaft, and
a pickup roller connected to the link housing and coupled to the pickup drive shaft;
wherein

when the pickup drive shaft rotates in the first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and portions of the rotating pickup drive shaft on opposite sides of the link housing, and the pickup drive shaft forces the pickup roller to engage, ~~the pickup drive shaft being prevented from moving in a second direction, opposite the first direction, and~~

when the pickup drive shaft rotates in the second direction, frictional contact between the link housing and the pickup drive shaft causes the link housing to pivot a second predetermined angle about the pickup drive shaft such that the pickup roller is removed from contact with the paper.

16. (CURRENTLY AMENDED) ~~The paper feeding device as set forth in claim 15,~~
further comprising a paper feeding device of an inkjet printer, comprising:

a motor generating a drive force;

a bi-directionally rotatable pickup drive shaft coupled to the motor;

a pivoting link housing, driven in a first direction by the pickup drive shaft;

a pickup roller connected to the link housing and coupled to the pickup drive shaft;

wherein

when the pickup drive shaft rotates in the first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and the rotating pickup drive shaft, and the pickup drive shaft forces the pickup roller to engage, the pickup drive shaft being prevented from moving in a second direction, opposite the first direction, and

when the pickup drive shaft rotates in the second direction, frictional contact between the link housing and the pickup drive shaft causes the link housing to pivot a second predetermined angle about the pickup drive shaft such that the pickup roller is removed from contact with the paper; and

an abrasion prevention member on one side of the outer surface of the link housing and in contact with the press.